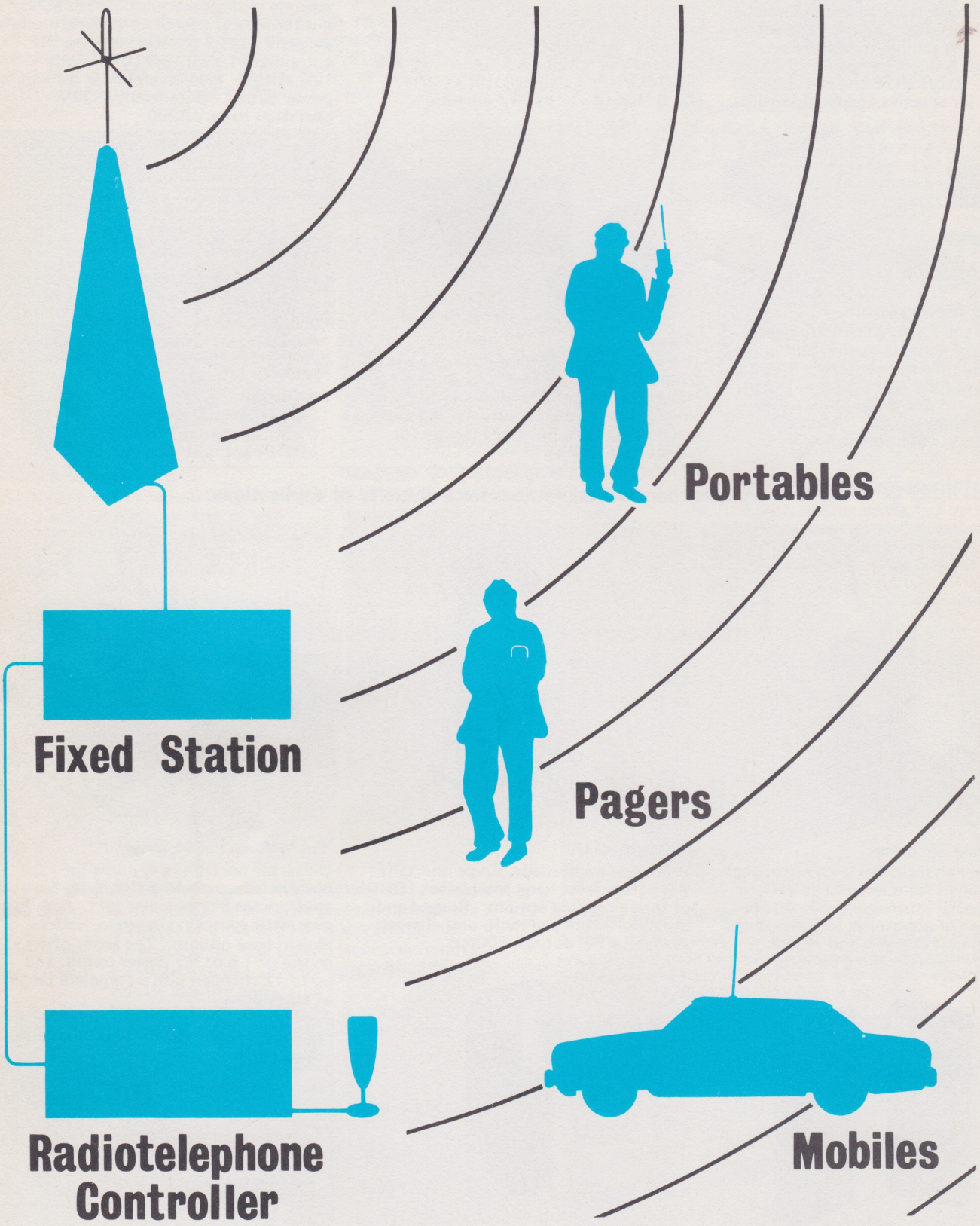
Radiotelephone Equipment Guide

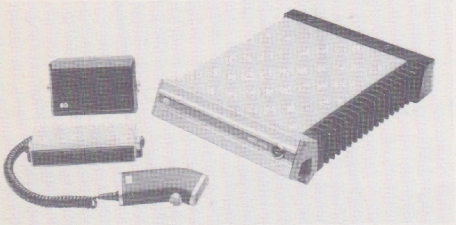


UK EDITION

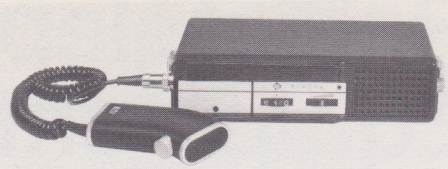
PYE

Mobiles a versatile range for front and remote mounting in vehicles

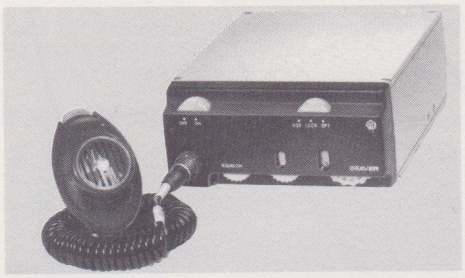
'Reporter'
VHF AM front mount radiotelephone with option of loudspeaker-microphone or separate speaker unit. Exceptionally compact. 5W minimum transmitter output, can be increased by A200 add-on amplifier. Single and 6-channel versions. Facilities for selective signalling and data.



'Olympic' Remote Mount
VHF AM and FM mobiles for remote mounting of main transceiver with small control unit in dashboard area. RF output 8W (AM) or 15W (FM). Higher power available with add-on amplifier. 24V operation from VR200. Selective signalling and data options.



'Europa'
Single unit VHF and UHF FM front mount radiotelephones. Front access slot for plug-in selective signalling module. Separate high power loudspeaker option. 3 or 6 channels, 5 or 25W at VHF; 3 channels, 5W at UHF. Data facility. 12 or 24V operation.



'Beaver'
Versatile VHF FM radiotelephone with choice of front or remote mounting. Ruggedly designed for heavy duty industrial outdoor conditions. Motorcycle version available. Internal facility for selective signalling.

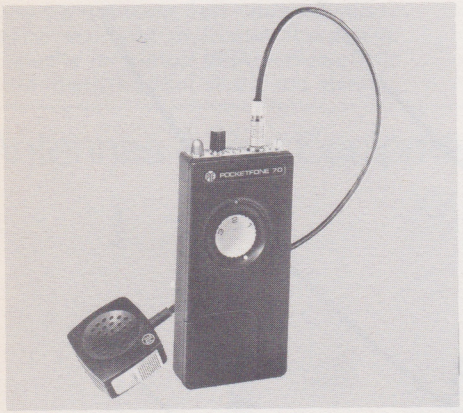
'Olympic' Front Mount
VHF and UHF radiotelephone with separate loudspeaker unit. Front access slot for plug-in selective signalling module Single, 6 and 12 channel versions. RF output: 8W (AM); 15W (VHF FM); 10W (UHF). Add-on amplifier for high power output. Data facility. 24V operation from VR200.

Style	Title	VHF AM	VHF FM	UHF FM
Front mount	Reporter	MF6AM		
	Europa		MF5FM MF25FM	MF5U
	Olympic	M201	M202	M212
Remote mount	Olympic	M203	*M258	
Front or Remote	Beaver		M254 M256	

**Remote mount 'Olympic', type M258, uses a different main transceiver unit from that illustrated.*

Ancillaries:
Linear amplifier type A200
Voltage regulator type VR200
AC Power unit type AC25PU

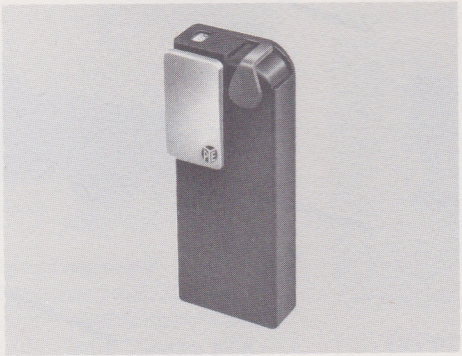
Portables & Pagers compact personal equipment for a diversity of applications



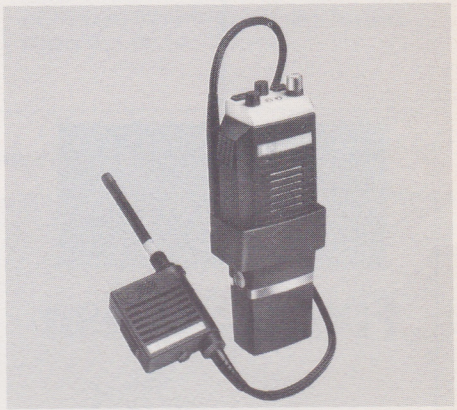
'Pocketfone 70' Series
A range of handheld and bodyworn, single unit personals for operation at VHF or UHF. Special intrinsically safe versions. Wide range of accessories includes single and multi-unit chargers and vehicle adaptors. Tone-signalling options.

'Pocketfone 9'
Advanced, two-unit personal radio at UHF. Small and lightweight. Unique multi-channel capability. Both transmitter and receiver have built-in antennas. Wide range of chargers available.

'Pocketfone 8'
A unique, multi-mode, single unit UHF FM personal for hand *and* pocket. Choice of tone signalling options. Rugged and durable. Single and multi-unit chargers available. RF output: 500mW.



'Pyecall 4' and 'Pyecall 5'
VHF AM and FM paging receivers compatible with 'Pyecall' selective calling systems. Up to 960 discrete codes. Valuable addition to mobile schemes. Intrinsically safe version and desk-mount unit charger available.

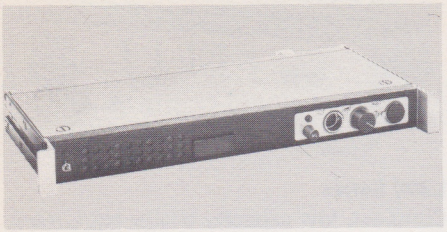


'Pocketfone' P5000 series
Universal portables providing for bodyworn, handheld and vehicle applications from a single unit. Rapid, automatic switching between modes. Plug-in tone options. The series offers a choice of 1.5 or 5W power output and up to 12 channels plus a complete range of accessories.

Mode of Operation	VHF AM	VHF FM	UHF FM
Bodyworn	PF2AMB	PF2FMB2e PF2FMBC1	PF2UB PF2UBIIC
Handheld			PF2UH
Bodyworn/ Handheld single unit			PF8
2-unit			PF9
Universal		P5002 P5004 P5006 P5008	

Ancillaries
Single and multi-unit battery chargers, vehicle adaptors, carrying aids etc.

Fixed Equipment transmitters, receivers and control equipment for the modern base station

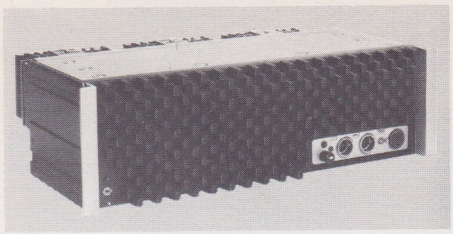


400 Series Receivers

A range of high performance receivers for VHF AM or FM and UHF FM operation. Plug-in modular construction. Highly compact 19 in. (483 mm) desk or rack mounting units. Standard AC or 24V DC operation.

VHF AM	VHF FM	UHF FM
R401	R402	R412

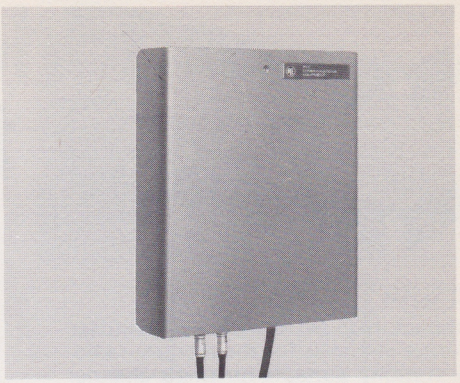
Ancillary Distribution amplifier RDA 8.



400 Series Transmitters

A compatible range of solid-state transmitters for operation at VHF (AM or FM) and UHF FM. Plug-in modular construction. Highly compact for 19 in. (483 mm) rack mounting or easily combined with receiver for desk-top station. RF output up to 25W (AM), 100W (VHF FM), 5W (UHF).

VHF AM	VHF FM	UHF FM
T401	T402, T406	T412

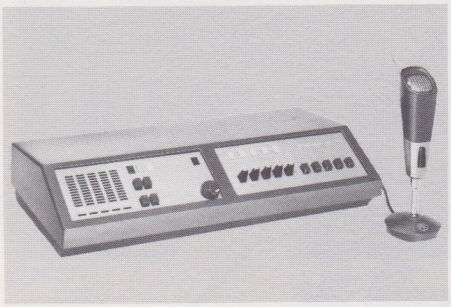


Types F25FM & F9U

Compact, slim-line, VHF and UHF base station transceivers for wall-mounting, with remote control from type PC1 control unit. Single channel only. RF Output: 25W (VHF), 5W (UHF).

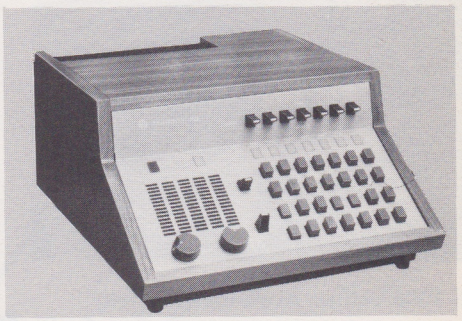
PC Series Control Units

A versatile range of radiotelephone remote control units for desk or wall-mounting. Built-in control facility options. Choice of single station simplex (DC or tone), duplex and two-station simplex.



'MASCOT 50' Control Unit

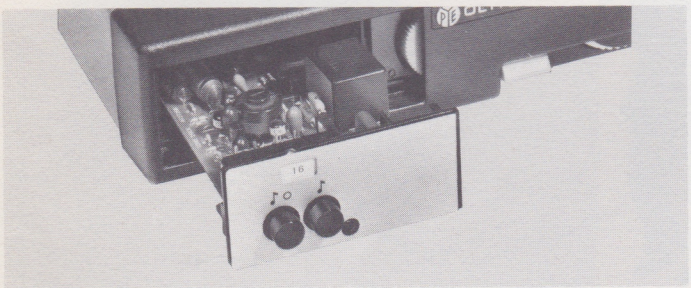
Multi-station remote control unit for integrated control of up to 5 radio stations. DC signalling, standard tone signalling interface to order. Facilities for parallel working and connection to PAX. Desk-mounting.



'MASCOT 70' Control System

Multi-station remote control of up to 7 radio stations from up to 4 operator positions. Inter-station and PAX connection facilities. Desk or panel mounting.

Signalling Systems for increased efficiency in mobile communications



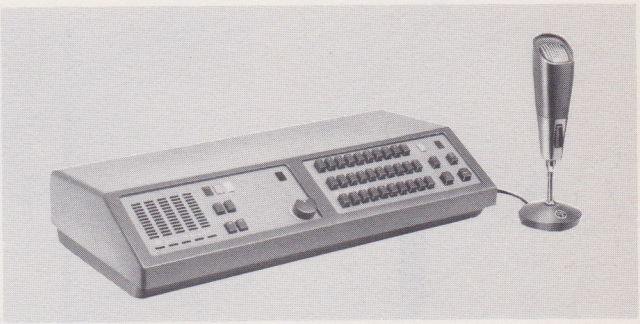
Versatile selective signalling modules for mobiles and portables:

Tone Lock: A C.T.C.S.S. which gives protection from the messages of other users on a shared channel.

Single Tone: An encoder for base station facility switching.

Two-Tone: Encoders and decoders for selective calling, vehicle identity and status.

Five-Tone: Encode/decode facilities for individual or group call, interrogation, identification and alarm.

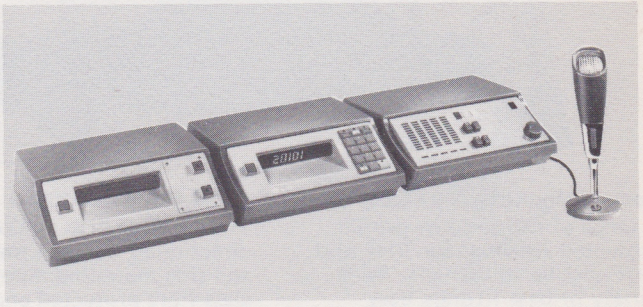


Encoder Type PC960

A compatible base station unit for the two-tone 'Pyecall' system. 960 code capacity. Internal decoder option. Available separately or combined with a radio controller (as illustrated). A digital display unit is available.

MDU 1000

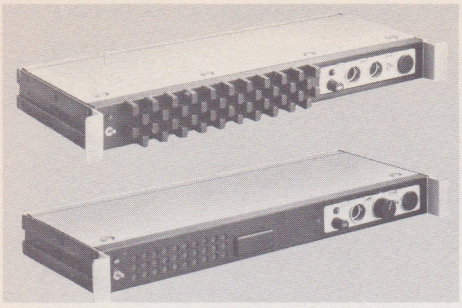
An advanced, two-way mobile data unit for operation with the Pye DS1000 vehicle availability system. Linked to mobile radiotelephones, these versatile new units operate in conjunction with data processing equipment at the control point to provide a high level of efficiency in vehicle fleet management.



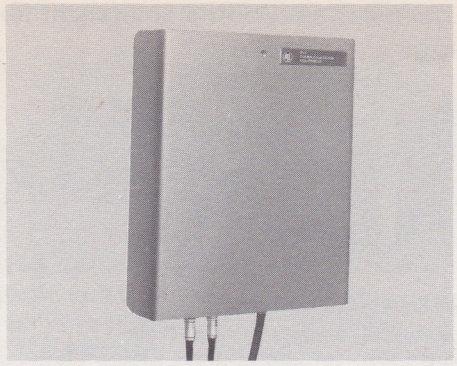
Type SD5 and Type SE5

Compatible base station decoder and encoder units, with built in displays, for five tone E.E.A. or Z.V.E.I. systems. Capacity up to 100 000 codes. Decoder has store capability. Suitable for addition to most existing schemes.

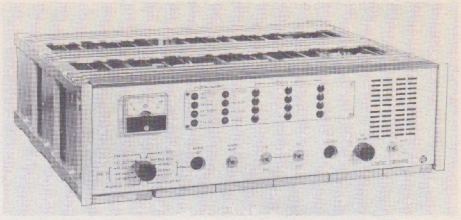
Link Equipment a versatile range of advanced bearer equipment for telephony, telemetry and data



400 Series
Compact, high performance transmitter and receiver units for the modern radio link station. Suitable for single channel or 1+1 working. Designed for 19 in. (483 mm) rack or cabinet mounting. Frequency range: 375–512 MHz or 1450–1535 MHz.



L9U Telemetry/Data Radio Terminal
A UHF FM transceiver specifically designed for medium speed telemetry and data applications. The rugged, slim-line case for wall-mounting combines economy of space with functional design.

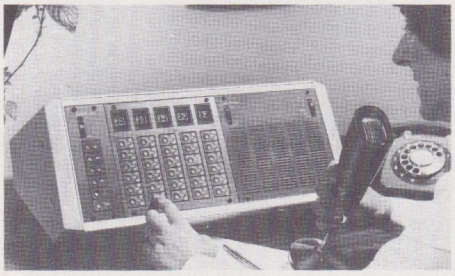


L300 Series
Compact, low capacity bearer equipment for world-wide applications. Modular construction. 19 in. (483 mm) or type 62 rack mounting. Low power consumption.

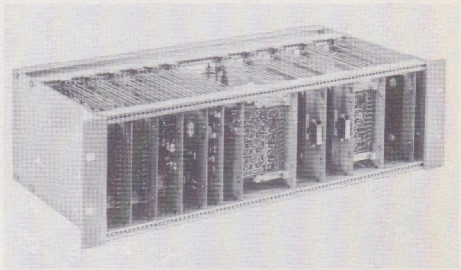
Type	Frequency Band	No. of Channels
L301	380–512 MHz	8
L303	1427–1535 MHz	8
L311	380–512 MHz	24 or 60
L312	890–960 MHz	24 or 60
L313	1427–1535 MHz	24 or 60
L314	1700–1900 MHz	24 or 60

Special Systems sophisticated control for the larger radio schemes

DS 1000 Vehicle Availability System
A computer-based data system, for operation with MDU1000 in vehicles, to improve fleet management. High speed data transmission, fast response, automatic recording, multi-operator access. Capacity for almost 9000 vehicles with auto-identification, status and alarm.

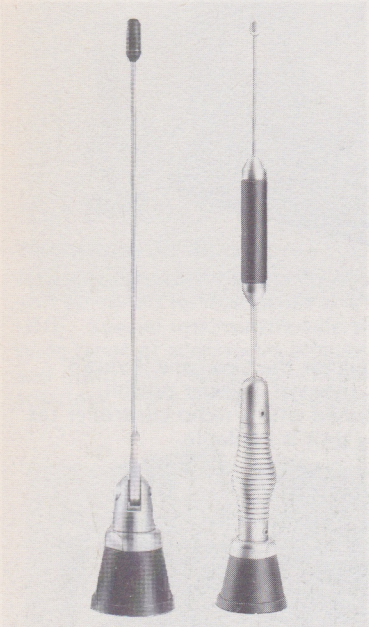


'MASCOT 1000'
Unique multi-access remote control system with capacity for 100 channels and 100 operator positions. Any operator can access any channel. Flexibility for system expansion. Low power consumption

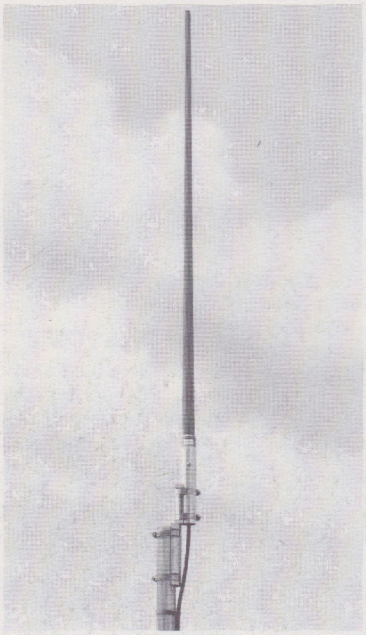


ASSORT 2
Automatic system for selection of best received signal in multi-site schemes. Selects receiver giving optimum reception of mobile transmitter at any instant. Capacity: up to 16 sites.

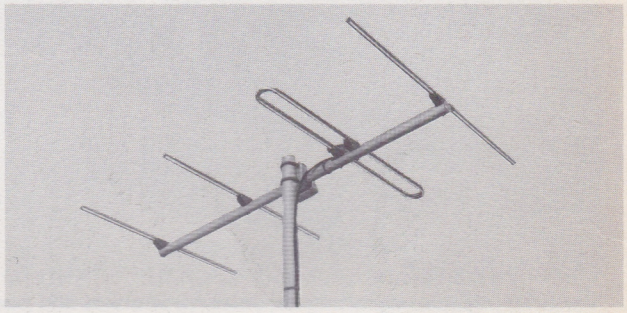
Antennas & Test Equipment extensive ancillaries for the radiotelephone system



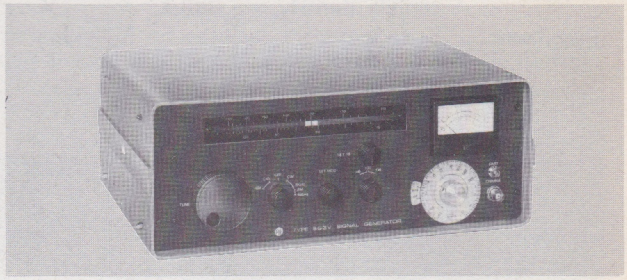
Vehicle Mounting
A range of rod and low profile, protected antennas for VHF and UHF mobile equipment. Wide variety of base fittings, easy installation, interchangeable parts. Quarter-wave or gain.



Fixed Omnidirectional
The range of base station omni-directionals includes mast-head and side-mounting dipoles, and glass-fibre protected end-fed and colinear antennas, with extensive coverage at VHF and UHF.



Fixed Directional
Yagi antennas for base station use comprise 2 to 8-element versions at VHF, 3 or 12-element and a double-dipole version at UHF. Two corner reflectors are also available.



Test Equipment
Comprehensive test gear for the maintenance engineer includes a range of signal generators, test meters, reflectometers and marker oscillators.

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